

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Palese et al.

Serial No.: To Be Assigned (Divisional of
U.S. Application Serial No.: 09/829,711)

Confirmation No.: To Be Assigned

Group Art Unit: 1648

Filed: Herewith

Examiner: Mary Mosher

For: SCREENING METHODS FOR
IDENTIFYING VIRAL PROTEINS
WITH INTERFERON
ANTAGONIZING FUNCTIONS
AND POTENTIAL ANTIVIRAL
AGENTS

Attorney Docket No.: 6923-115

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97 & §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent and Trademark Office of all references coming to the attention of Applicants or their attorneys which are or may be related to patentability of the claimed invention, Applicants hereby direct the Examiner's attention to references **B01** to **B05** and **C01** to **C24**, which are listed on the accompanying revised PTO Form 1449.

The instant application is a divisional of patent application Serial No. 09/829,711, filed April 10, 2001. References **B01** to **B05** and **C01** to **C24** on the attached revised form PTO 1449 were cited by or submitted to the Patent Office in connection with patent application Serial No. 09/829,711, to which the instant application claims priority pursuant to 35 U.S.C. § 120. Pursuant to 37 C.F.R. § 1.98(d), the Examiner is directed to the file of application Serial No. 09/829,711 for copies of references **B01** to **B05** and **C01** to **C24**; however, if the examiner requests copies of the cited references, legible copies will be provided. Applicants respectfully request that the Examiner review the foregoing references and that the references be made of record in the file history of the application.

Identification of the listed references is not to be construed an admission by Applicants or their attorneys that such references are available as "prior art" against the subject application.

Pursuant to 37 C.F.R. § 1.97(b), it is estimated that no fee is due. However, if a fee is deemed to be due, please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A duplicate of this sheet is enclosed for accounting purposes.

Respectfully submitted,

Date August 5, 2003

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LIST OF REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)

ATTY DOCKET NO.
6923-115

APPLICATION NO
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Application Serial No.:
09/829,711)

APPLICANT
Palese et al.

FILING DATE
August 5, 2003

GROUP
1648

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A01						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	B01	DE 100 20 505	10/01	Germany				
	B02	WO 99/64068	12/16/99	PCT				
	B03	WO 99/64570	12/16/99	PCT				
	B04	WO 99/64571	12/16/99	PCT				
	B05	WO 97/08292	3/6/97	PCT				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	C01	Beattie et al., 1995, "Reversal of the Interferon-Sensitive Phenotype of a Vaccinia Virus Lacking E3L by Expression of the Reovirus S4 Gene," J. Virology 69(1):499-505
	C02	Bossert et al., 2002, "Respiratory Syncytial Virus (RSV) Nonstructural (NS) Proteins as Host Range Determinants: a Chimeric Bovine RSV with NS Genes from Human RSV Is Attenuated in Interferon-Competent Bovine Cells", J. of Virology 76:4287-93.
	C03	Butterfield and Campbell, 1978, "Vaccination for Fowl Plague", Selected Reports and Notes, 671-674
	C04	Clemens and Elia, 1997, "The Double Stranded RNA-Dependent Protein Kinase PKR: Structure and Function", Journal of Interferon and Cytokine Research, 17:503-524
	C05	Didcock et al., 1999, "The V Protein of Simian Virus 5 Inhibits Interferon Signalling by Targeting STAT1 for Proteasome-Mediated Degradation", J. of Virology, 73(12): 9928-9933
	C06	Floyd-Smith et al., 1981, "Interferon Action: RNA Cleavage Pattern of a (2'-5') Oligoadenylate-Dependent Endonuclease", Science 212: 1030-1032
	C07	Garcia-Sastre et al., 1998, "The Role of Interferon in Influenza Virus Tissue Tropism", J. of Virology, 72(11): 8550-8558
	C08	Garcia-Sastre et al., 1998, "Influenza A Virus Lacking the NS1 Gene Replicates in Interferon-Deficient System", Virology 252:324-330.
	C09	Garcin et al., 1999, "Sendai Virus C Proteins Counteract the Interferon-Mediated Induction of an Antiviral State", J. Virology 73(8): 6559-6565
	C10	Gotoh et al., 1999, "Knockout of the Sendai Virus C Gene Eliminates the Viral Ability to Prevent the Interferon- α/β -Mediated Responses", FEBS Letters 459:205-210
	C11	Haller et al., 1998, "Mx Proteins: Mediators of Innate Resistance to RNA Viruses", Rev. Sci. Tech. Off. Int. Epiz., 17(1):220-230
	C12	Hatada and Fukuda, 1992, "Binding of influenza A virus NS1 protein to dsRNA in vitro", J. of General Virology, 73: 3325-3329
	C13	He et al., 1997, "The 34.5 Protein Of Herpes Simplex Virus 1 Complexes With Protein Phosphatase 1 α to Dephosphorylate the α subunit of the eukaryotic translation initiation factor 2 and preclude the shutoff of protein synthesis by double stranded RNA-activated protein kinase", Proc. Natl. Acad. Sci. USA, 94:843-848
	C14	Komatsu et al., 2000, "Sendai Virus Blocks Alpha Interferon Signaling To Signal Transducers and Activators of Transcription", J. Virology, 74(5): 2477-2480
	C15	Lu et al., 1995, "Binding of the Influenza Virus NS1 Protein to Double Stranded RNA Inhibits the Activation of the

		Protein Kinase that Phosphorylates the eIF-2 Translational Factor", Virology 214:22-228
	C16	Naniche et al., 2000, "Evasion of Host Defenses by Measles Virus: Wild Type Measles Virus Infection Interferes with Induction of Alpha/Beta Interferon Production", J. Virology, 74(16): 7478-7484
	C17	Norton et al., 1987, "Infectious Influenza A and B Virus Variants with Long Carboxyl Terminal Deletions in the NS1 Polypeptides", Virology 156:204-213
	C18	Schlender et al., 2000, "Bovine Respiratory Syncytial Virus Nonstructural Proteins NS1 and NS2 Cooperatively Antagonize Alpha/Beta Interferon-Induced Antiviral Response", J. of Virology 74(18):8234-8242
	C19	Stark et al., 1998, "How Cells Respond to Interferons", Annu.Rev.Biochem. 67:227-264
	C20	Talon et al., 2000, "Activation of Interferon Regulatory Factor 3 Is Inhibited by the Influenza A Virus NS1 Protein", J. Of Virology, 74(17): 7989-7996
	C21	Talon et al., 2000, "Influenza A and B Viruses Expressing Altered NS1 Proteins: A vaccine Approach", Proc. Natl. Acad. Sci USA 97(8):4309-4314
	C22	Wang et al., 2000, "Influenza A Virus NS1 Protein Prevents Activation of NF-KB and Induction of Alpha/Beta Interferon", J. of Virology 74(24): 11566-11573
	C23	Yoshida et al., 1981, "Characterization of the RNA Associated with Influenza A Cytoplasmic Inclusions and the Interaction of NS ₁ Protein with RNA", Virology 110: 87-97
	C24	Young et al., 2000, "Paramyxoviridae Use Distinct Virus Specific Mechanisms to Circumvent the Interferon Response", Virology, 269:383-390

EXAMINER**DATE CONSIDERED**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.